

#### ABSTRACT OF THE DISCLOSURE

The present invention is directed a Lef1/ $\beta$ -catenin-dependent reporter and to transgenic fish containing this reporter. The present invention is also directed to the use of the reporter and the transgenic fish as a model for the  $\beta$ -catenin signaling pathway.

- 5 The model is useful for identifying genes in the  $\beta$ -catenin signaling pathway and for identifying drugs that can modulate the  $\beta$ -catenin signaling pathway. Such drugs are useful for treating or preventing melanoma, colorectal cancer and osteoporosis, among other disease conditions.